Regulation Redesign
Phase 2 Implementation

Special Session of the Market Implementation Committee

October 30, 2026

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Agenda

Oct. 30

High-Level Summary of Changes

AGC – Signal and Telemetry Changes

Performance Metrics
Testing, performance scoring, mileage, de-assignment

Markets Gateway

Data Miner 2

Nov. 13

Regulation Market Business Rules Changes
RegUp/RegDn *Offer data and clearing and Opportunity Cost calculation*

Regulation Settlement

FAQ/Q&A

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Background

- The Regulation Market Design Senior Task Force worked to address the existing Regulation Market, operation and settlement design flaws from April 2022 through November 2023.
  - Stakeholders endorsed enhancements, including regulation signal redesign, regulation performance scoring, regulation requirement MW, regulation market clearing and regulation market settlement.
- The overall benefits of the FERC-approved Regulation Market updates will be to create efficiencies in procurement and price formation for regulation service while meeting the challenges presented by the changing resource mix over the next several years.
  - FERC approval on June 14, 2024
  - Phase 1 implemented on Oct. 1, 2025.
  - Phase 2 scheduled for Dec. 1, 2026.

Key Takeaway: PJM's Regulation Market has shifted from a market with one product and two signals ("RegA and RegD") to a market with one signal and two products, Regulation Up and Regulation Down, which will bring significant operational and market enhancements.

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Regulation Redesign – Phase Implementation and Timeline

FERC Approval on June 14, 2024

Clean order accepting our Regulation Market Reform 205 filing

Phase 1 Went Live

Oct. 1, 2025

Phase 2 Go-Live

~~*Oct. 1, 2026*~~

Dec. 1, 2026



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Overview

Effective Dec. 1, 2026, Phase 2 aspects of the PJM Regulation Market, Operation and Settlement will change.

Result of Regulation Market Design Senior Task Force

The intent of this special session is to:

- Refresh understanding of new terminology and concepts.
- Ensure awareness of business rule changes and impacts.
- Create opportunity for clarifying questions.

Updated manual language has been endorsed by the applicable stakeholder committee meetings – not part of this session.

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Phase 2 Summary of Changes

#	Design Components	Summary Description
1	**Signals and Products**	Bifurcate ***one*** signal bidirectional to two products, **RegUp and RegDn**, each with its own requirement, clearing price and settlement. Eligible resources will be able to offer, clear and follow either the RegUp, RegDn or both in a given market interval. Only one product is deployed at a time.
2	**Requirement MW**	Seasonal and hourly requirement MW separate for RegUp and RegDn may be asymmetric to better reflect operational needs, with consideration both to historic and future system conditions and with annual requirements MW updates.
3	**Performance Metrics**	Phase 1 changes plus performance score, mileage and bias-factor calculation separately for RegUp and RegDn.
4	**Offer and Clearing Timing**	Phase 1 changes plus offer MW, offer price and availability status separately for RegUp and RegDn. Offer MW will change from hourly granularity to 30 min. granularity.
5	**Opportunity Cost Calculation**	Separate resource's RegUp and RegDn opportunity cost for pricing. Settlements will calculate one intra-commitment opportunity cost that accounts for both RegUp and RegDn assignments on a resource. The settlements calculated intra-commitment opportunity cost will also account for the amount of energy produced while providing Regulation, referred to as "Regulation signal bias."
6	**Settlement**	Regulation billing for RegUp and RegDn – Separate clearing price credits for RegUp and RegDn – Ability to submit Regulation bilateral transactions separately for RegUp and RegDn – Separate clearing price charges for RegUp and RegDn – A single lost opportunity lost credit accounting for both RegUp and RegDn assignments – A single lost opportunity cost charge

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Regulation Signal and Market Products – Phase 2

Moving From a One-Signal Bidirectional Product to One-Signal RegUp and RegDn Products **will split many of the design elements into two.**

Two requirements:
One for RegUp and one for RegDn

Two offers:
One for RegUp and one for RegDn

Two performance scores and mileages:
One for RegUp and one for RegDn

Two clearing prices:
One for RegUp and one for RegDn

Two settlement billings:
One for RegUp and one for RegDn

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Phase 2 Ongoing and Upcoming Milestones and Timeline

No.	Milestone	Timeline
1	**RegUp/RegDn resources conversion testing**	Since June 8, 2026
2	**Markets Gateway Train (Sandbox) for testing**	Since June 16, 2026
3	**Market PCT Pricing Simulation**	Since Oct. 27, 2026
4	**Special Education Series 1 & 2**	Oct. 30 | Nov. 13, 2026
5	**Telemetry Tabletop Sessions**	Nov. 11 | Nov. 20, 2026
6	**Regulation Redesign Phase 2 market opens**	Nov. 24, 2026
7	**Regulation Redesign Phase 2 go-live (cutover)**	Dec. 1, 2026, at 00:00 EST

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Posted Documents for Phase 2 Changes

The following documents have been posted on the Ancillary Services page under a new section called **Regulation Redesign Phase 2.**

PJM.com > Markets & Operations > Ancillary Services >

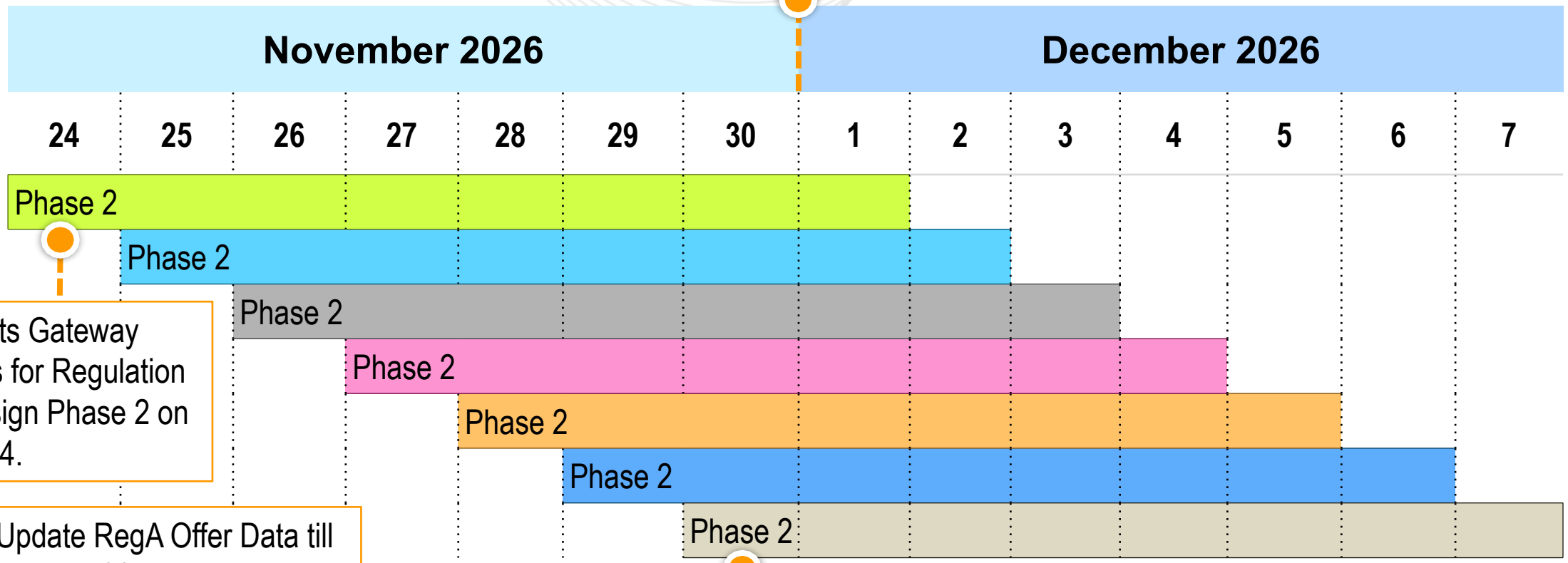


Regulation Redesign Phase 2	Date
XML Schema XSD	5.19.2026
PJM External Interface Specification Guide PDF	5.19.2026
Regulation Phase 2 Open House - March 2026 PDF	4.2.2026
Regulation Cost-Based Offers Validation Template - Phase 2 XLS	4.22.2026
Sample Regulation Up and Regulation Down Test Signal Pattern XLS	3.3.2026
40-Minute Performance Score Template XLS	3.3.2026
Regulation Conversion Testing Checklist for Phase 2 PDF	2.18.2026
Regulation Redesign Phase 2 FAQs PDF	5.12.2026
Regulation Up & Down Effective Megawatt Requirement Definition PDF	1.27.2026

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Markets Gateway Opens on Nov. 24 for Phase 2 Go-Live

All Offer Data for RegA will stop being used at 00:00 on Dec. 1.



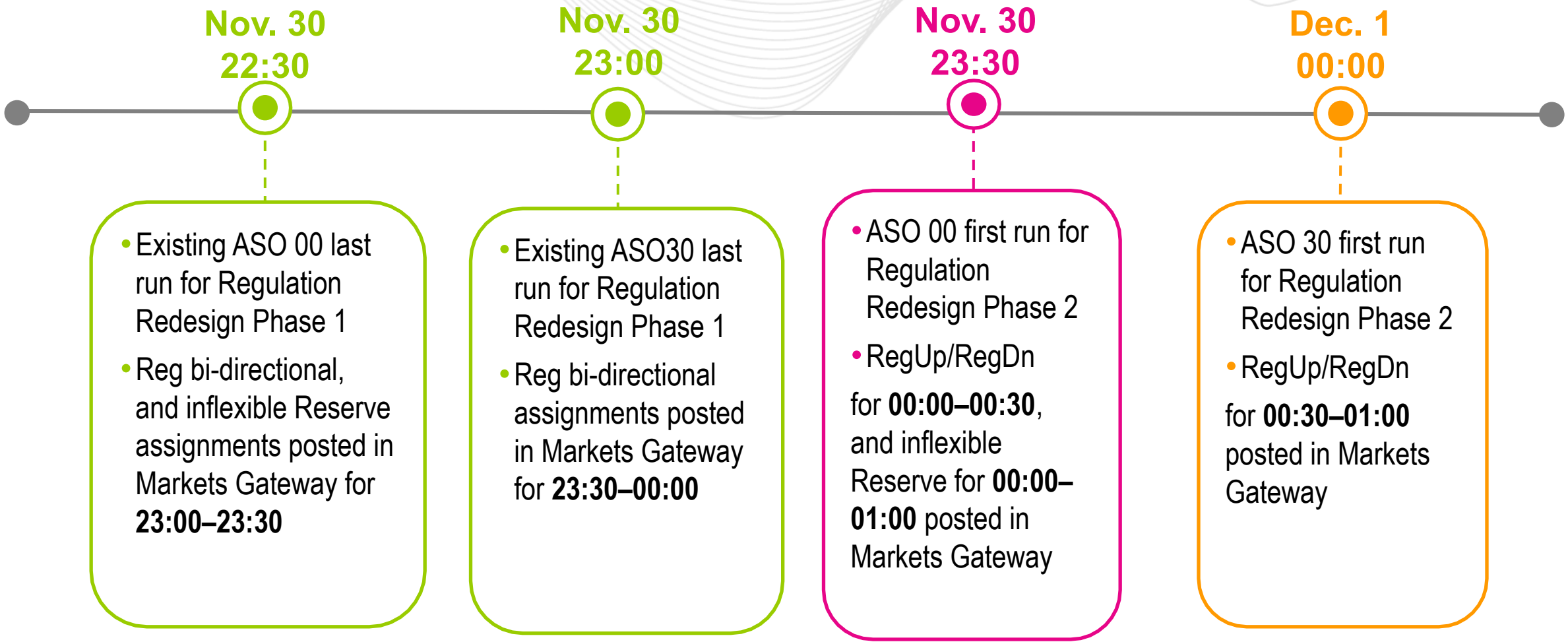
Markets Gateway Opens for Regulation Redesign Phase 2 on Nov. 24.

Enter/Update RegA Offer Data till 22:55 on Nov. 30.

Key Takeaway To continue to participate (uninterrupted) in the Regulation Market, offer data must be submitted between Nov. 24 and Nov. 30.

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Cutover Night – Nov. 30/Dec. 1



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Complete Your RegUp/RegDn Signal Conversion Testing



Be Ready.

Timely testing today prevents participation disruption tomorrow.

Test early and avoid risk.

Why Test Now?

- Validate your RegUp/RegDn telemetry and signal path and logic.
- Ensure your systems correctly receive, process and respond to the new signals.
- Identify and resolve issues early – before they impact your ability to participate.

Gain confidence that your resources will perform reliably on go-live day and beyond.

Avoid Last-Minute Testing

- Late testing increases the risk of unresolved issues before go-live.
- A surge of last-minute requests can overwhelm support teams and delay issue resolution.
- Limited time for fixes and retesting may jeopardize your readiness.

Last-minute overwhelming testing requests are highly discouraged.

Start Testing Today	Early testing helps ensure a smooth transition and uninterrupted participation when Regulation Redesign Phase 2 goes live.

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Regulation Phase 2 Testing – Please, We Need Your Participation

Actively Submit Your RegUp/RegDn Offers and Parameters in the Markets Gateway (MG) Sandbox!

Why Your Participation Matters

- Ensure full representation of various resource types for RegUp/RegDn testing.
- Validate your offers, parameters and integrations early.
- Provide real-world data that drives better logic validations and results.

Let's Work Together for Phase 2 Success

Your active participation is key to building a robust, efficient and reliable Regulation Market, operation and pricing. Thank you for partnering with PJM.

How It Works in the Sandbox



Submit RegUp/RegDn Offers & Parameters in MG Sandbox



QLIK Process Moves Data to STG



Regulation Clearing Every 30 minutes



QLIK Process Returns Results to MG Sandbox for Posting

*Regulation Market clearing and results will be posted **every 30 minutes.***

What You Can Do



1. Submit your RegUp/RegDn offers and parameters.
2. Test new and updated MG features.
3. Develop and validate your third-party software integrations.
4. Share feedback and report issues.

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Email Contacts

Inquiry	Email Contact
To request a Regulation test	RegulationTesting@pjm.com
Regulation telemetry – signal setup or conversion	PJMTelemetrySupport@pjm.com
Regulation redesign questions	RegulationDesign@pjm.com
Communication to PJM Member Relations	custsvc@pjm.com

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AGC – Signal and Telemetry Changes

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Phase 2 Regulation Signal/Products

AGC Signal



The output equals RegUp plus RegDn signal and sent to members as RegA.

=

RegUp



RegUp equals the regulation control signal multiplied by the TRegUp.

+

RegDn



RegDn equals the regulation control signal multiplied by the TRegDn.

Types of Awards	ARegUp	ARegDn	RegUp	RegDn	Reg
RegUp only	10	0	RC*10	RC*0	0 to 10
RegDn only	0	10	RC*0	RC*10	0 to -10
RegUp and RegDn	10	10	RC*10	RC*10	10 to -10

RC = Regulation controller signal

PJM.com > Markets & Operations > Ancillary Services > Regulation Redesign Phase 2 FAQs (PDF)

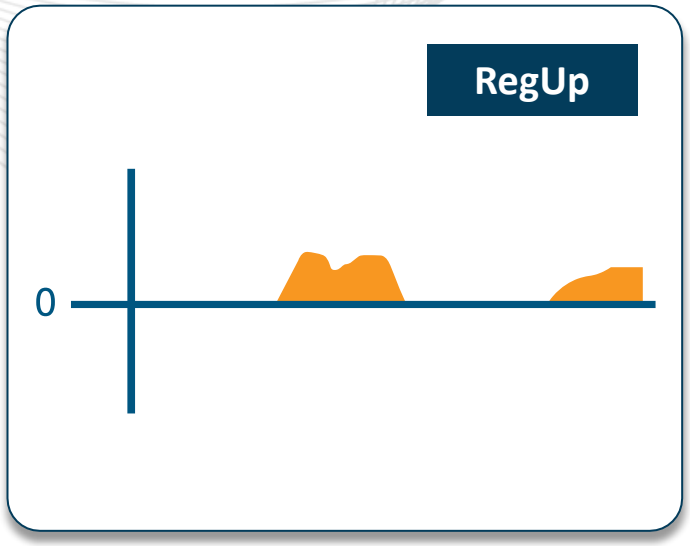
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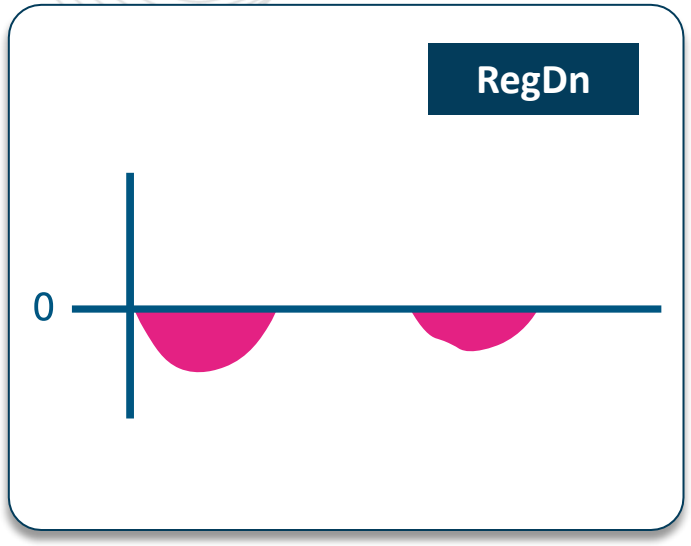
Regulation Testing

Set up testing time with PJM Performance Compliance and Dispatch.

Prior to testing, enable RegUp/Dn Code, new registers will be used for testing.

*Note: RegUp and RegDn must be **tested separately** but can be done **back-to-back.***





Points Used

Economic Base Point	Can be set and locked by Member prior to testing as a good point to regulate around
ARegUp or ARegDn	Unit-assigned Regulation
TRegUp or TRegDn	Total Regulation capability by fleet
CRegUp or CRegDn	Calculation of how close to the Reg Signal the fleet is
RegA	New Regulation Up or Down signal. Register is reused from previous Regulation signal.

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Logistics

In the weeks leading up to go-live, a rush of last-minute conversions will be done first-come, first-served, but technical and SME constraints may push late-comers to after go-live.

In the weeks following go-live, anyone inadvertently left out of the market may have to wait for PJM services to complete conversion.

Nov. 30, 2026

Join bridge call for all Members making activate changes or monitoring their system performance.

Dec. 1 2026, 0:00

PJM swap AGC logic to new RegUp and RegDn.

- All old Regulation AReg, TReg and CReg are set to zero.
- All units and fleets should be ready to respond to new AReg Up/Dn signals beforehand and have bids in correctly.

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Midnight Cutover

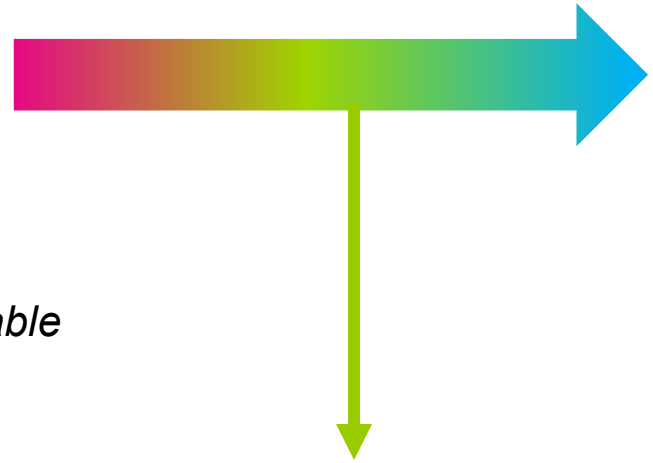
Legacy Regulation ICCP Signals are to be retired.

AReg = 0

TReg = 0

CReg = 0

Will be set to 0 and unusable on Dec. 1 00:00



ARegUp = *Value*	ARegDn = *Value*
TRegUp = *Value*	TRegDn = *Value*
CRegUp = *Value*	CRegDn = *Value*

New RegUp and RegDn Signals will be in effect.

RegA = *Value*
Basepoint = *Value*

Existing points will remain and will used for RegUp and RegDn:

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Emergency Procedures

Night of Change:

- Inform PJM Dispatch and Change Bridge of the issue.
- Manually replace TRegUp/Dn assignments to PJM until issue is resolved.

Day After:

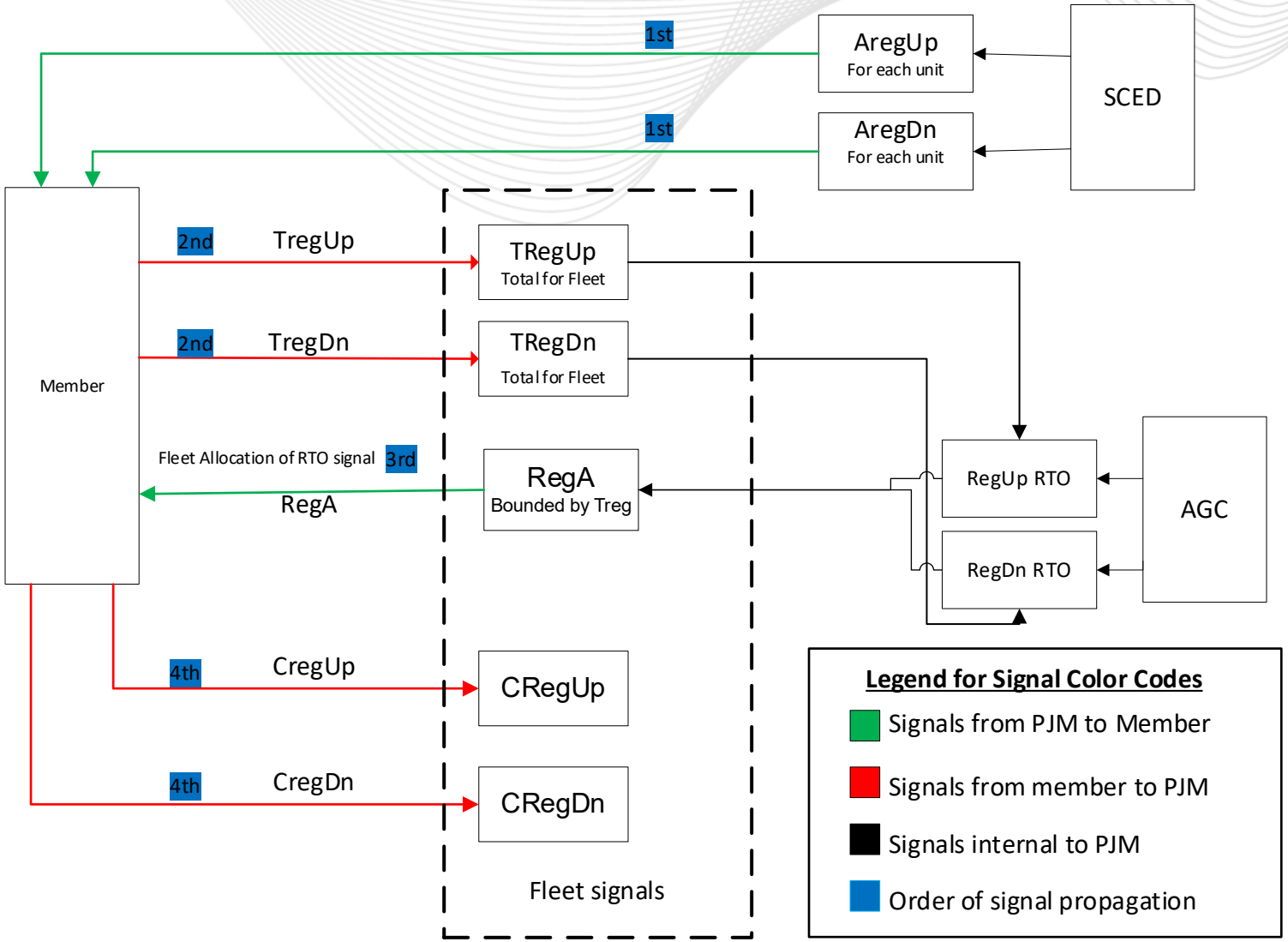
- Inform PJM Telemetry Support for telemetry and control-related issues. We can troubleshoot as needed.
- All Regulation-related issues will be handled by order of importance to grid reliability.

In the event we are unable to continue, we reserve the option to reverse the changes and fall back to RegA.

Members will be expected to follow notifications and fall back with us.

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Regulation Control Diagram



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Performance Metrics

Testing, performance scoring, mileage, de-assignment

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Agenda

1. Regulation Testing
2. Regulation De-Assignment
3. Capability MW (Phase 1 carryover), Performance Score (Nov. 29) and Mileage Initialization (Nov. 24)
4. Performance Scoring
5. Rolling Average (Daily Score) & Regulation Mileage

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Members Steps to Follow:

STEP 1

Reach out to PJMTelemetrySupport@pjm.com to set up all new telemetry points for RegUp and RegDn.

STEP 2

Send a test request to RegulationTesting@pjm.com at least 24 hours prior to when you plan to test your resource.

STEP 3

Call PJM Dispatch at least one hour prior to the start of the test for the final confirmation based on system conditions.

Checklist for Members includes more details.

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For Step 2:

Nov. 23 will be the last day to test for the timely Dec. 1 implementation.

One resource per Regulation Fleet is required to test:

1. One 40-minute test to follow **RegUp** signal
2. One 40-minute test to follow **RegDn** signal

Both tests for RegUp and RegDn can be performed on the same resource on the same day during this implementation period for Phase 2.

Passing score is 75% or better.

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Regulation Testing Post Implementation

New Resource to Regulation Market will require **two tests per signal.**

Two tests for **RegUp** signal.

The average of two scores will be the initialized performance score.

Two tests for **RegDn** signal.

The average of two scores will be the initialized performance score.

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Capability Megawatts, Performance Score and Mileage Initialization

Capability MW Initialization

Regardless of megawatts tested for conversion, each resource will carry their Phase 1 RegA capability over to RegUp and/or RegDn.

Performance Score Initialization (Daily Score)

Each resource will be initialized using their Daily Score for Nov. 30, 2026.

This will be captured on Nov. 29, 2026, and written to the test record for RegUp and/or RegDn so that PSCE will use it to calculate the initial Daily Scores for Dec. 1, 2026.

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Capability MW, Performance Score and Mileage Initialization

Mileage Initialization (Daily Mileage)

Daily Mileage is calculated seven days ahead using 30 days of historical Hourly Mileages.

1. **PSCE will use Phase 1 RegA Hourly Mileage** to calculate RegUp and RegDn Daily Mileage for all days prior to Dec. 1, 2026.
2. **Beginning with Dec. 1, 2026,** RegUp and RegDn will have their own separate Hourly Mileages, which will be used to calculate Daily Mileage.

Daily Mileage	Calculated On	Data From	Hourly Mileages Used
Dec. 1, 2026	Nov. 24, 2026	Oct. 25–Nov. 23, 2026	RegA
Jan. 6, 2027	Dec. 31, 2026	Dec. 1–30, 2026	RegUp and RegDn

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Performance Scoring

Scenario 1

Resource has only a **RegUp assignment.**

Resource is expected to follow the signal when it is positive.

When the signal is negative the resource must hold its basepoint.

Scenario 2

Resource has only a **RegDn assignment.**

Resource is expected to follow the signal when it is negative.

When the signal is positive the resource must hold its basepoint.

Scenario 3

Resource is assigned **both RegUp and RegDn.**

Resource should follow the signal in both directions.

When scoring RegUp, resource will receive its Daily Score for intervals where signal is negative.

When scoring RegDn, resource will receive its Daily Score for intervals where signal is positive.

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Resource assignment changes from one signal in an interval to the other signal in the next interval.

Resource will receive its Daily Score for the first 10 minutes of the second interval.

Example:

Resource has a RegUp assignment only at 10:00 and RegDn only at 10:30.

Resource will receive its Daily Score for 10:30–10:40.

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Beginning on Dec. 1, 2026:

Resources will receive a separate Performance Score for RegUp and RegDn (depending on what they have qualified for).

Historic performance scores will be calculated based on 200 30-minute intervals.

- Separate Mileages will be calculated for RegUp and RegDn.
- Daily Scores and Mileages will be the same at implementation but will diverge over time.

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Regulation De-Assignment

Self de-assignment results in **zero** score for the remainder of the commitment period.

PJM dispatcher de-assignment **does not impact performance score.** For a PJM dispatcher de-assignment, the historic performance score will be used in the remainder of the period the resource is de-assigned.

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Data Miner 2

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Impact Details

Product-Action Required	Deadline	Who May Be Affected
Regulation Redesign Phase 2	Dec. 1, 2026 (PRD)	**Data Miner Users**

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Regulation Redesign Changes – Phase 2

Data Miner 2 Feed Location	
Ancillary Services > Real-Time Ancillary Service Market Results	A new feed will be created that includes requirements, procured MWs, and clearing prices for both RegUp/RegDn and Reserve products. This feed is posted daily on business days.
Ancillary Services > Regulation Market Data	A new feed will be created that includes RegUp/RegDn requirements and procured MWs. It will also include RegUp/RegDn Mileage and overall performance scores. This feed is posted daily on business days.
Ancillary Services > Regulation Prices	A new feed will be created that includes the five-minute RegUp/RegDn clearing prices, requirements and procured MWs. This feed is updated every five minutes in real time.
Ancillary Services > PJM Regulation Zone Preliminary Billing Data	A new feed will be created to provide hourly preliminary billing data for both RegUp and RegDn products. The feed contains data once processed and made available by PJM Settlements.
Locational Marginal Prices > Real-Time Ancillary Service Five-Minute LMPs	Existing feed will be updated. Ancillary Service column will include RTO Regulation Up Capability, RTO Regulation Up Mileage, RTO Regulation Up Mileage Ratio, RTO Regulation Down Capability, RTO Regulation Down Mileage, and RTO Regulation Down Mileage Ratio. RTO Regulation Capability, RTO Regulation Mileage, and RTO Mileage Ratio will not be included.
Locational Marginal Prices > Real-Time Ancillary Service Hourly LMPs	Existing feed will be updated. Ancillary Service column will include RTO Regulation Up Capability, RTO Regulation Up Mileage, RTO Regulation Up Mileage Ratio, RTO Regulation Down Capability, RTO Regulation Down Mileage, and RTO Regulation Down Mileage Ratio. RTO Regulation Capability, RTO Regulation Mileage, and RTO Mileage Ratio will not be included.

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Regulation Redesign Changes – Phase 2 New Feeds

Old feeds will be moved to retired folder/category.

Old Feed Name	New Feed Long Name	New Feed Shortname/API
Ancillary Services > Real-Time Ancillary Service Market Results – OLD	**Ancillary Services > Real-Time Ancillary Service Market Results**	ancillary_service_market_results
Ancillary Services > Regulation Market Data – OLD	**Ancillary Services > Regulation Market Data**	regulation_market_results
Ancillary Services > Regulation Prices – OLD	**Ancillary Services > Regulation Prices**	regulation_prices
Ancillary Services > PJM Regulation Zone Preliminary Billing Data	**Ancillary Services > Regulation Zone Preliminary Billing Data**	reg_zone_preliminary_billing

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Markets Gateway

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Markets Gateway Summary of Changes – Phase 2

#	Markets Gateway Screen	Summary Description
1	**Demand Response > Regulation Market > Offers** **Generator > Regulation Market > Offers**	▪ Product Type Column added for RegUp and RegDn ▪ Reg Self Scheduled column moved to Unit > Detail / Demand Response > Parameters
2	**Demand Response > Regulation Market > Updates** **Generator > Regulation Market > Updates**	▪ Tab renamed to “Hourly Updates” ▪ Reg MW column removed – Offer MW is moved to Period Updates ▪ New column Symmetry – as a drop down with list as “None,” “Bidirectional,” “Symmetrical” ▪ Existing Offer Price and Cost columns replaced with Offer Price and Offer Cost columns for RegUp and RegDn
3	**Demand Response > Regulation Market > Availability Updates** **Generator > Regulation Market > Availability Updates**	▪ Tab renamed to “Period Updates” and will have all parameters with 30-min granularity ▪ RegUp MW and RegDn MW columns added ▪ Reg Availability replaced with RegUp and RegDn Availability columns ▪ Reg Self-Schedule moved to a separate column from Reg Availability and is a single column that applies to both RegUp and RegDn

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Markets Gateway Summary of Changes – Phase 2

#	Markets Gateway Screen	Summary Description
4	**Demand Response > Demand Response > Parameters** **Generator > Unit > Detail**	▪ Regulation Self-Schedule field added and applies to both RegUp and RegDn ▪ New column Symmetry – as a drop down with list as "None," "Bidirectional," "Symmetrical"
5	**Generator > Unit > Detail**	▪ Regulation Resource checkbox replaced with RegUp Resource and RegDn Resource checkboxes
6	**Generator > Dispatch Lambda**	▪ Reg MW column replaced with RegUp MW and RegDn MW columns
7	**Demand Response > Market Results > Regulation Award** **Generator > Market Results > Regulation Award**	▪ Split into separate RegUp and RegDn Regulation Award tabs. It will continue to be 30-minute granularity.
8	**Public > Market Results Ancillary > Regulation Results**	▪ Split into separate RegUp and RegDn Regulation Award tabs. It will continue to be 30-minute granularity.
9	**Bilaterals**	▪ Reg MW column replaced with RegUp MW and RegDn MW columns

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Offer Parameter Deadlines

Offer Type	Markets Gateway Location	Deadline to Update
Daily Offer	**Demand Response > Regulation Market > Offers** **Generator > Regulation Market > Offers**	End of Rebid Period (14:15) the Day Before the Operating Day
Hourly Updates	**Demand Response > Regulation Markets > Hourly Updates** **Generator > Regulation Market > Hourly Updates**	35 Minutes Prior to the Operating Hour*
	**Note: Hourly Regulation Capability Offer Price/Cost and Hourly Regulation Mileage Offer Price/Cost can only be updated intraday for resources that are opted in to Intraday Offers (IDO). If opted out of IDO, they may still be submitted prior to 14:15 the day before the Operating Day.*	
Period Updates (30-min granularity, only applies to Regulation)	**Demand Response > Regulation Market > Period Updates** **Generator > Regulation Market > Period Updates**	35 Minutes Prior to the Operating Period

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Other Applications

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Sample ASO Case Execution, Posting and Target Intervals

Cases	Execution Time	Products Types	Markets Gateway Posting Deadline	Target Time (Begin)
ASO 00	12:30	Regulation & Reserves	12:50	13:00
ASO 30	13:00	Regulation Only	13:20	13:30
ASO 00	13:30	Regulation & Reserves	13:50	14:00
ASO 30	14:00	Regulation Only	14:20	14:30

- Regulation and Reserves results notification of at least 10 minutes before the operating time
- If ASO 30 is missed, All-Call must go out by **hh:20** to extend the last **Regulation assignment.**
- If **ASO 00** is missed, All-Call must go out by **hh:50** to extend the last **Regulation and Inflexible Reserve assignment.**

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Data Viewer and PJM.com Summary of Changes – Phase 2

#	Location	Summary Description
1	Data Viewer > Ancillary Services > Market Clearing Prices	**Remove the following fields** ▪ RTO Regulation Capability ▪ RTO Regulation Performance **Add the following fields** ▪ RTO Regulation Up Capability ▪ RTO Regulation Up Mileage ▪ RTO Regulation Down Capability ▪ RTO Regulation Down Mileage ▪ RTO Secondary Reserve ▪ MAD Secondary Reserve
2	PJM.com > Markets and Operations	In Ancillary Services section, replace Regulation Price with Regulation Up Price and Regulation Down Price.

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Next Steps

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Expected Collaboration



Regulation market seller engagement

- Reliance on RegUp/RegDn offer data
- Proactively participates in the project activities
- Timely report of issues/concerns



Rigorous testing and simulations

- Sandbox opens for offer data and market results
- Leveraging Market PCT in simulations for insightful market outcomes

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Session 2



Friday, Nov. 13
from 9–11 a.m.

Topics:

- Market Operations
- Market Settlement
- Q/A

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SME/Presenter: Regulation Design Team,
RegulationDesign@pjm.com

MIC Special Education Session
Regulation Redesign Phase 2



Member Hotline

(610) 666-8980

(866) 400-8980

custsvc@pjm.com

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Report suspicious email activity to PJM.

Call (610) 666-2244 or email it_ops_ctr_shift@pjm.com

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Appendix

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New Configuration in PJM EMS

Member Submits an Offer for RegUp and RegDn

Member-Submitted Offer

Regulation offer MW
Regulation capability price and cost
Mileage price and cost
Regulation min & max (optional)
Regulation status/availability

Up Cleared

Down Cleared

PJM Control Center Sends Assignment Regulation Tags to Member Control Center

30m Assignment Tags for Units

AREGDN (Assigned Regulation Down)

AREGUP (Assigned Regulation Up)

Member Control Center

Member Calculates TREGUP and TREGDN for Fleet

(2s) Member Sends Two TREG Tags for Fleet

TREGUP (Total Available Regulation Up)

TREGUP (Total Available Regulation Down)

PJM Uses TREG Value to Build Regulation Signal for Fleet

(2s) PJM Sends REGA "Regulation Signal" Tag (for Fleet)

**Weight calculation method changes slightly*

Member calculates weights, splits REGA signal among units in Fleet.

$$\textbf{Unit Target MW} = \boldsymbol{Unit\ Basepoint} + \boldsymbol{Unit\ Weighted\ REGA\ signal}$$

Member calculates CREGUP/DN for the entire fleet.

$$\textbf{CREG} = \sum (\boldsymbol{Unit\ MW} - \boldsymbol{Unit\ Basepoint})$$

Only include assigned up/down units in the respective CREGUP/DN calc.

(2s) Member Sends Two CREG Tags for Fleet

CREGUP (Current Regulation Up)

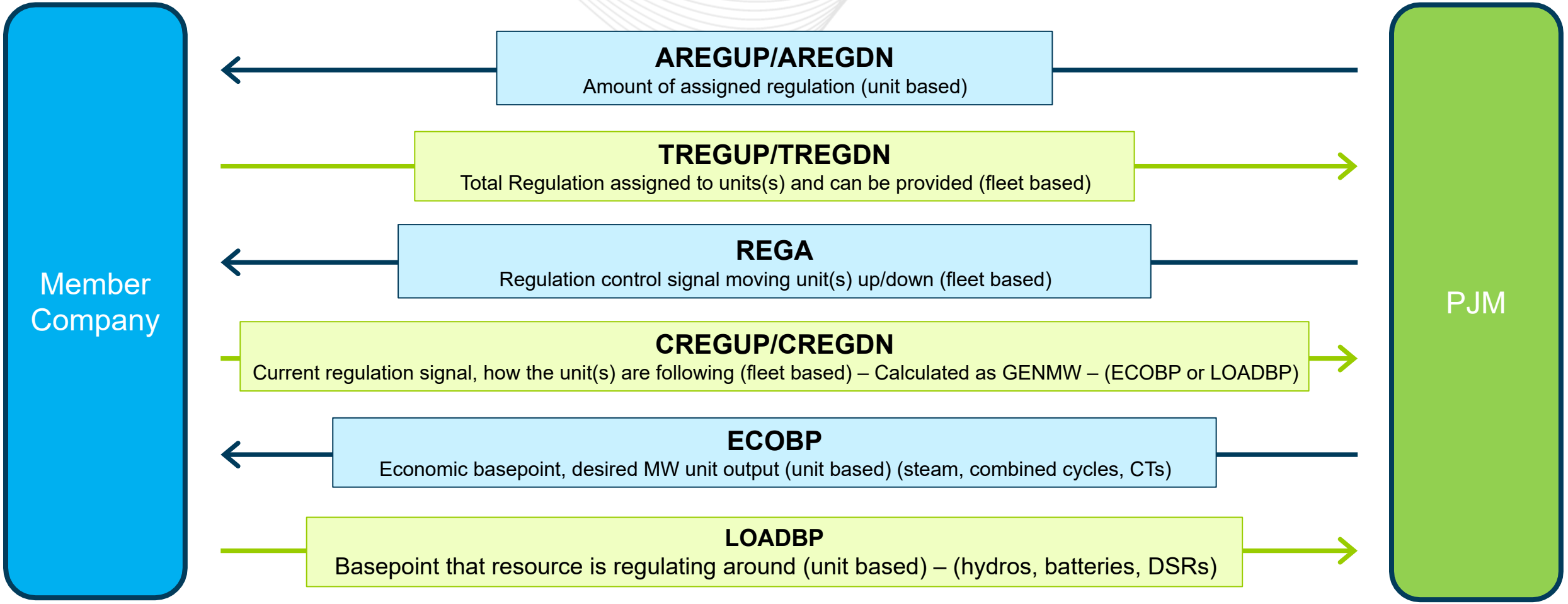
CREGDN (Current Regulation Down)

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Currently Planned for Dec. 1, 2026

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Regulation Telemetry Signals



Disclaimer: While materials are current at the time of publishing, applicable requirements may change. PJM Governing Documents control.

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Regulation Requirement

Seasons	Dates	Hours Ending	Up Requirement MW	Down Requirement MW
Winter	Nov. 1–Feb. 28	HE 5–10, HE 17–24	750	750
		HE 1, HE 11	650	650
		HE 2–4, HE 12–16	550	550
Spring	March 1–April 30	HE 19–1, HE 6–9	750	750
		HE 2, HE 10	650	650
		HE 3–5, HE 11–18	550	550
Summer	May 1–Sept. 15	HE 5–24, HE 1	750	750
		HE 2	650	650
		HE 3–4	550	550
Fall	Sept. 16–Oct. 31	HE 6–9, HE 18–24	750	750
		HE 1, HE 10	650	650
		HE 2–5, HE 11-17	550	550

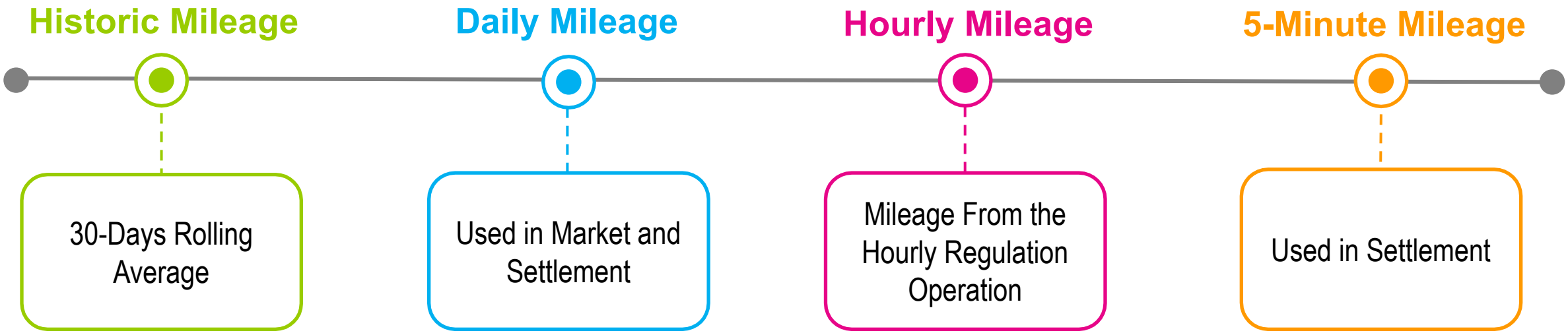
HE – Hour Ending

regulation-up-and-down-effective-megawatt-requirement-definition.pdf

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Regulation Mileage

Reg Mileage Represents the Movement of the Signal



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